

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	("20050129076").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/19 11:47
S4	72	VCSEL AND (mirror or reflect\$4) and cavity and active and (vertical near3 stack\$3) and (aperture or hole or groove or open\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/19 11:54
S5	7	VCSEL and (defect near3 indicat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/19 11:56
S6	4	((("5,978,408") or ("5,896,408") or ("5,719,893") or ("6,356,686")).PN.	USPAT	OR	OFF	2005/12/19 12:11
S2	2	VCSEL AND (mirror or reflect\$4) and cavity and active and (vertical near3 stack\$3) and (aperture or hole or groove or open\$3) and (defect near3 indicat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/19 12:24
S7	1	VCSEL AND (mirror or reflect\$4) and cavity and active and (vertical near3 stack\$3) and (aperture or hole or groove or open\$3) and ((Al or Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy)) near3 indicat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/19 12:26
S8	1	VCSEL AND (mirror or reflect\$4) and cavity and active and (vertical near3 stack\$3) and (aperture or hole or groove or open\$3) and ((Al or Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy)) near5 indicat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/19 13:01
S10	57	VCSEL AND (mirror or reflect\$4) and cavity and active and (vertical near3 stack\$3) and (aperture or hole or groove or open\$3) and ((Al or Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy))) and barrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/19 13:02
S9	65	VCSEL AND (mirror or reflect\$4) and cavity and active and (vertical near3 stack\$3) and (aperture or hole or groove or open\$3) and ((Al or Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/19 13:02
S11	43	VCSEL AND (mirror or reflect\$4) and cavity and active and (vertical near3 stack\$3) and (aperture or hole or groove or open\$3) and ((Al or Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy))) and ((barrier or oxidz\$3) near3 (layer or region or medium or film))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/19 13:55
S3	12	((Wilson near2 Widjaja) or (Bernhard near3 Ulrich near3 Koelle)).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/19 14:00
S13	12	((Wilson near3 Widjaja) or (Bernhard near3 Ulrich near3 Koelle)).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/19 14:22

S12	29	VCSEL AND (mirror or reflect\$4) and cavity and active and (vertical near3 stack\$3) and (aperture or hole or groove or open\$3) and ((Al or Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy))) and ((barrier or oxidz\$3) near3 (layer or region or medium or film)) and indicat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/19 14:27
S14	1	VCSEL AND (mirror or reflect\$4) and cavity and active and (vertical near3 stack\$3) and (aperture or hole or groove or open\$3) and ((Al or Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy)) near5 indicat\$4) and ((barrier or oxidz\$3) near3 (layer or region or medium or film))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/19 14:28
S17	32	VCSEL AND (mirror or reflect\$4) and active and (aperture or hole or groove or open\$3) and ((Al or Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy)) with indicat\$4) and ((barrier or oxidz\$3) near3 (layer or region or medium or film))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/19 14:29
S15	1	VCSEL AND (mirror or reflect\$4) and cavity and active and (vertical near3 stack\$3) and (aperture or hole or groove or open\$3) and ((Al or Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy)) with indicat\$4) and ((barrier or oxidz\$3) near3 (layer or region or medium or film))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/21 06:09
S18	96	((("5748665") or ("5809051") or ("5799030") or ("5812581") or ("5212703") or ("5343487") or ("5493577") or ("5633527") or ("6154480") or ("4999843") or ("5018157") or ("5323416") or ("5478774") or ("5544193") or ("5712865") or ("5903588") or ("5940422") or ("6026108") or ("6097041") or ("4943970") or ("5012486") or ("5063569") or ("5038356") or ("5256596") or ("5258316") or ("5274655") or ("5293392") or ("5317587") or ("5331658") or ("5337327") or ("5351257") or ("5359618") or ("5387543") or ("5388120") or ("5422901") or ("5432809") or ("5446752") or ("5538919") or ("5547898") or ("5557626") or ("5563900") or ("5633886") or ("5699375") or ("5703892") or ("5724375") or ("5724376") or ("5732103") or ("5748661") or ("5757027") or ("5757836").pn.) or ("5764674") or ("5812571") or ("5815524") or ("5832017") or ("5831960") or ("5835521") or ("5837561") or ("5883912") or ("5891746") or ("5893722") or ("5898722") or ("5903586") or ("5914973") or ("5915165") or ("5917848") or ("5918108") or ("5943359") or ("5943357") or ("5953362") or ("5956364") or ("5956363") or ("5963568") or ("5963576") or ("5966399") or ("5978398") or ("5982802") or ("5985686") or ("6008067") or ("6013537") or ("6016326") or ("6021146") or ("6021147") or ("6026111") or ("6061380") or ("6061485") or ("6061485") or ("6061380") or ("6064683") or ("6084900") or ("6121068") or ("6233267") or ("6280523") or ("6320206") or ("6320893") or ("6362069") or ("6411638") or ("6420199") or ("6438149") or ("6515305") or ("6542531").pn.))). PN.	USPAT	OR	OFF	2005/12/21 07:08
S16	37	VCSEL AND ((Al or Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy)) with indicat\$4) and ((barrier or oxidz\$3) near3 (layer or region or medium or film))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/21 11:19
L4	257	VCSEL AND ((Al or Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy)) near3 (layer or region or indicat\$4 or film or medium)) and ((barrier or oxidz\$3) near3 (layer or region or medium or film)) and (aperture or hole r groove)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/21 11:24
L3	380	VCSEL AND ((Al or Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy))) and ((barrier or oxidz\$3) near3 (layer or region or medium or film)) and (aperture or hole r groove)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/21 11:24
L5	138	VCSEL AND ((Al or Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy)) near3 (layer or region or indicat\$4 or film or medium)) and ((barrier or oxidz\$3) near3 (layer or region or medium or film)) and (aperture or hole r groove)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/21 11:33

L6	110	VCSEL AND ((Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy)) near3 (layer or region or indicat\$4 or film or medium)) and ((barrier or oxidz\$3) near3 (layer or region or medium or film)) and (aperture or hole r groove)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/21 11:41
L8	78	VCSEL AND (((Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy) or polymer) near3 (layer or region or indicat\$4 or film or medium)) same ((barrier or oxidz\$3 or nitrid\$3) near3 (layer or region or medium or film)) and (aperture or hole or groove))	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/21 11:42
L7	149	VCSEL AND ((Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy) or polymer) near3 (layer or region or indicat\$4 or film or medium)) and ((barrier or oxidz\$3 or nitrid\$3) near3 (layer or region or medium or film)) and (aperture or hole r groove)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/21 11:42
L9	223	VCSEL AND (((Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy) or polymer) near3 (layer or region or indicat\$4 or film or medium)) and ((barrier or oxidz\$3 or nitrid\$3) near3 (layer or region or medium or film)) and (aperture or hole or groove))	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/21 12:19
L13	41	11 not 8	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/21 12:20
L12	197	10 not 6	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/21 12:20
L11	119	VCSEL AND (((Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy) or polymer) near3 (layer or region or indicat\$4 or film or medium)) same ((barrier or oxidz\$3 or nitrid\$3 or insulat\$4) near3 (layer or region or medium or film)) and (aperture or hole or groove))	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/21 12:20
L10	307	VCSEL AND (((Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy) or polymer) near3 (layer or region or indicat\$4 or film or medium)) and ((barrier or oxidz\$3 or nitrid\$3 or insulat\$4) near3 (layer or region or medium or film)) and (aperture or hole or groove))	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/21 12:20

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L14	1	(VCSEL AND (mirror or reflect\$4) and cavity and active and (vertical near3 stack\$3) and (aperture or hole or groove or open\$3) and (defect near3 indicat\$3)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/21 12:53
L15	1	(VCSEL and (defect near3 indicat\$3)).clm.	US-PGPUB	AND	ON	2005/12/21 12:53
L16	5	(VCSEL AND (mirror or reflect\$4) and cavity and active and (vertical near3 stack\$3) and (aperture or hole or groove or open\$3) and ((Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy)))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2005/12/21 12:54
L17	3	(VCSEL AND (mirror or reflect\$4) and cavity and active and (vertical near3 stack\$3) and (aperture or hole or groove or open\$3) and ((Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy)))).clm.	US-PGPUB	AND	ON	2005/12/21 12:54
L18	3	(VCSEL AND (((Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy) or polymer) near3 (layer or region or indicat\$4 or film or medium)) same ((barrier or oxidz\$3 or nitrid\$3 or insulat\$4) near3 (layer or region or medium or film)) and (aperture or hole or groove)))).clm.	US-PGPUB	AND	ON	2005/12/21 12:55
L19	8	(VCSEL AND (((Ti or Titanium or (titanium near2 alloy) or aluminum or (aluminum near2 alloy) or polymer) near3 (layer or region or indicat\$4 or film or medium)) and ((barrier or oxidz\$3 or nitrid\$3 or insulat\$4) near3 (layer or region or medium or film)) and (aperture or hole or groove)))).clm.	US-PGPUB	AND	ON	2005/12/21 12:56